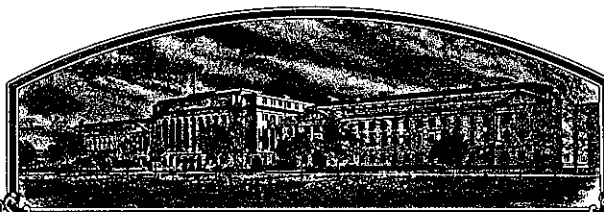


No.

8600005



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Terral-Morris Seed Co., Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

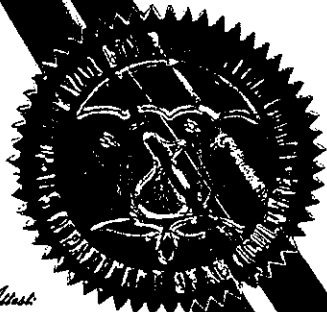
AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS OWNED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Terra-Vig 616'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 30th day of June in the year of our Lord one thousand nine hundred and eighty-six.

Attest:

*Kenneth H. Kiser*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Richard E. Lyng*  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN & SEED DIVISION

FORM APPROVED: OMB NO. 0581-0005

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions on reverse)

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1. NAME OF APPLICANT(S) Terral-Norris Seed Co., Inc.		2. TEMPORARY DESIGNATION Terra-Vig X 768		3. VARIETY NAME Terra-Vig 616	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 604 Ninth Street Lake Providence, La. 71254		5. PHONE (Include area code) (318) 559-2840		FOR OFFICIAL USE ONLY PVPO NUMBER 8600005	
6. GENUS AND SPECIES NAME Glycine max		7. FAMILY NAME (Botanical) Leguminosae		FILING DATE 10/16/85 TIME 2:30 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
8. KIND NAME Soybean		9. DATE OF DETERMINATION November 1979		AMOUNT FOR FILING \$ 1,800 DATE 10/16/85	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation				AMOUNT FOR CERTIFICATE \$ 200 DATE May 20, 1986	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Louisiana				12. DATE OF INCORPORATION	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Thomas F. Terral P.O. Box 826 Lake Providence, La. 71254					
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED					
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of the Variety e. <input checked="" type="checkbox"/> OWNERSHIP STATEMENT - PJS					
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input type="checkbox"/> No					
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> Foundation <input checked="" type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified		
18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No					
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES? HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> NO. PJS <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No					
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF APPLICANT Thomas F. Terral				DATE September 27, 1985	
SIGNATURE OF APPLICANT				DATE	

8600005

EXHIBIT A

TERRAL-NORRIS SEED COMPANY'S APPLICATION FOR TERRA-VIG 616

Origin and Breeding History of the Variety

Terra-Vig 616 originated from the cross, Experimental 128 x Experimental 41. Experimental 128 was a breeding line which originated from the cross Davis x Pickett. Experimental 41 was a breeding line which originated from the cross Bragg x Pickett. The pedigree method of breeding was employed in selecting this variety. In 1979, an F4 plant row was bulked for yield testing in 1980. Concurrent yield testing and increasing of this strain, then known as Terra-Vig Experimental 768, were carried out.

Observation and rogueing were conducted in subsequent years on each increase generation. Based on these observations Terra-Vig 616 is stable for all observable characteristics.

SEE EXHIBIT D FOR VARIANTS AND THEIR FREQUENCIES. RPS

## EXHIBIT B

TERRAL-NORRIS SEED COMPANY'S APPLICATION FOR TERRA-VIG 616Novelty Statement

Terra-Vig 616 is most similar to Centennial. The principle differences between Terra-Vig 616 and Centennial are pubescence color, date of maturity, foliage color, protein content and hilum color. Terra-Vig 616 has a gray pubescence and Centennial has a tawny pubescence. Terra-Vig 616 (10-29) is about nine (9) days later in maturity than Centennial (10-20). Terra-Vig 616 has dark green foliage and Centennial has light green foliage. Terra-Vig 616 is lower in protein content (38.0%) than Centennial (40.2%). Terra-Vig 616 has an imperfect black hilum and Centennial has a black hilum.

TABLE B I  
AVERAGE DATA FOR 14 TESTS CONDUCTED IN MISSISSIPPI,  
LOUISIANA AND TENNESSEE IN 1982, 1983 and 1984

	<u>Terra-Vig 616</u>	<u>Centennial</u>	<u>Difference</u>
Flower Color <sup>1/</sup>	P	P	No
Pubescence Color <sup>2/</sup>	G	T	Yes
Plant Height (cm)	84.1	89.0	-4.9
Maturity Date	10-29	10-20	+9
Lodging <sup>3/</sup>	1.6	1.5	+0.1
Foliage Color <sup>4/</sup>	4.4	1.8	+2.6
Protein Content (%)	38.0	40.2	-22
Oil Content (%)	21.3	21.0	+0.3
Stink Bug Damage <sup>5/</sup>	1.0	1.1	-0.1
Weight gm/100 Seed	11.0	12.5	-1.5
Seed Quality Rating <sup>6/</sup>	1.9	2.0	-0.1
Seed Coat Luster <sup>7/</sup>	3.1	3.1	No
Seed Coat Color <sup>8/</sup>	3.8	3.3	+0.5
Hilum Color	Imp. BL.	BL	Yes

<sup>1/</sup> P = Purple  
W = White

<sup>2/</sup> T = Tawny  
G = Gray

<sup>3/</sup> 1 = No Lodging  
5 = Severe Lodging

<sup>4/</sup> 1 = Very Light Green  
5 = Very Dark Green

<sup>5/</sup> 1 = No Seed Damage  
5 = Severe Seed Damage

<sup>6/</sup> 1 = Very Good Quality  
5 = Very Poor Quality

<sup>7/</sup> 1 = Very Shiny  
5 = Very Dull

<sup>8/</sup> 1 = Deep Yellow  
5 = Light Yellow

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
BELTSVILLE, MARYLAND 20705

EXHIBIT C  
(Soybean)

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Terral-Norris Seed Co., Inc.

ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)

604 Ninth Street

Lake Providence, La. 71254

FOR OFFICIAL USE ONLY

PVPO NUMBER

8600005

VARIETY NAME OR TEMPORARY DESIGNATION

TERRA-VIG 616

Place the appropriate number that describes the varietal character of this variety in the boxes below.

## 1. SEED SHAPE:

☐ 1 = SPHERICAL    ☐ 2 = SPHERICAL FLATTENED    ☐ 3 = ELONGATE    ☐ 4 = OTHER (Specify)

## 2. SEED COAT COLOR:

☐ 1 = YELLOW    ☐ 2 = GREEN    ☐ 3 = BROWN    ☐ 4 = BLACK    ☐ 5 = OTHER (Specify)    SHADE: ☐ 1 = LIGHT    ☐ 2 = MEDIUM    ☐ 3 = DARK

## 3. SEED COAT LUSTER:

☐ 1 = DULL    ☐ 2 = SHINY

## 4. SEED SIZE

☐ ☐ GRAMS PER 100 SEEDS

## 5. HILUM COLOR:

☐ 1 = BUFF    ☐ 2 = YELLOW    ☐ 3 = BROWN    ☐ 4 = GRAY    ☐ 5 = IMPERFECT BLACK    ☐ 6 = BLACK    ☐ 7 = OTHER (Specify)    SHADE: ☐ 1 = LIGHT    ☐ 2 = MEDIUM    ☐ 3 = DARK

## 6. COTYLEDON COLOR:

☐ 1 = YELLOW    ☐ 2 = GREEN

## 7. LEAFLET SIZE (See Reverse):

☐ 1 = SMALL    ☐ 2 = MEDIUM    ☐ 3 = LARGE

## 8. LEAFLET SHAPE:

☐ 1 = OVATE    ☐ 2 = OBLONG    ☐ 3 = LANCEOLATE    ☐ 4 = ELLIPTICAL    ☐ 5 = OTHER (Specify)

## 9. LEAF COLOR (See reverse):

☐ 1 = LIGHT GREEN    ☐ 2 = MEDIUM GREEN    ☐ 3 = DARK GREEN

## 10. FLOWER COLOR:

☐ 1 = WHITE    ☐ 2 = PURPLE    ☐ 3 = OTHER (Specify)

## 11. POD COLOR:

☐ 1 = TAN    ☐ 2 = BROWN    ☐ 3 = BLACK

## 12. POD SET:

☐ 1 = SCATTERED    ☐ 2 = CONCENTRATED

## 13. PLANT PUBESCENCE COLOR:

☐ 1 = GRAY    ☐ 2 = BROWN    ☐ 3 = OTHER (Specify)

## SHADE:

☐ 1 = LIGHT    ☐ 2 = MEDIUM    ☐ 3 = DARK

## 14. PLANT TYPES (See Reverse):

☐ 1 = SLENDER    ☐ 2 = BUSHY    ☐ 3 = INTERMEDIATE

## 15. PLANT HABIT:

☐ 1 = DETERMINATE    ☐ 2 = INDETERMINATE    ☐ 3 = OTHER (Specify)

## 16. HYPOCOTYL COLOR:

☐ 1 = GREEN    ☐ 2 = PURPLE

## 17. SEED PROTEIN:

☐ 1 = A    ☐ 2 = B

## 18. NUMBER OF DAYS TO FLOWERING

(Place a zero in first box (e.g. ☐ ☐ ☐ ) when days are 9 or less.)

## 19. MATURITY GROUP:

☐ 1 = 00    ☐ 2 = 0    ☐ 3 = I    ☐ 4 = II    ☐ 5 = III  
☐ 6 = IV    ☐ 7 = V    ☐ 8 = VI    ☐ 9 = VII    ☐ 10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. ☐ ☐ ☐ ) when size is 9 mm. or less.)

☐ ☐ ☐ MM. LENGTH OF SEEDLING

☐ ☐ MM. LENGTH OF COTYLEDON

☐ ☐ MM. WIDTH OF COTYLEDON

## 21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ BACTERIAL PUSTULE

☐ SOYBEAN CYST

☐ DOWNY MILDEW

☐ PURPLE STAIN

☐ POD AND STEM BLIGHT

☐ ROOT KNOT

☐ FROGEYE

☐ STEM CANKER

☐ PHYTO-PHTHORA

☐ BROWN STEM ROT

☐ TARGET SPOT

☐ BROWN SPOT

☐ BUD BLIGHT

☐ WILDFIRE

☐ RHIZOCTONIA ROT

☐ OTHER (Specify)

8600005

## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Centennial	Petiole angle	Centennial
Leaf shape	Centennial	Seed size	Terra-Vig 606
Leaf color	Terra-Vig 606	Seed shape	Centennial
Leaf surface	Centennial	Seedling pigmentation	Centennial

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	10-29	1.6	84.1	-	-	38.0	21.3%	-	-
Name of similar variety Centennial	10-20	1.5	89.0	-	-	40.2	21.0	-	-

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

**LEAF COLOR:** Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

**LEAF SIZE:** The following varieties may be used as a guide to identify the relative size leaves.

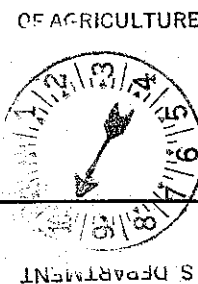
SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

**PLANT TYPE:** The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

RECEIVED

OCT 3 1985



AMS PVPO

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## EXHIBIT D

TERRAL-NORRIS SEED COMPANY'S APPLICATION FOR TERRA-VIG 616Additional Description of the Variety

Terra-Vig 616 is a group VI maturity variety that matures nine (9) days later than Centennial. Terra-Vig 616 has purple flowers, a gray pubescence and a tan pod wall. The leaves of Terra-Vig 616 are ovate in shape. The foliage color of Terra-Vig 616 is dark green. The seed coat is medium in luster and the seed coat color is medium to light yellow. The hilum color is imperfect black. The seed of Terra-Vig 616 (4,127 seed per pound) is smaller than the seed of Centennial (3,632 seed per pound). Terra-Vig 616 seed is lower in protein content (38.0%) than seed of Centennial (40.2%). Terra-Vig 616 seed is similar in oil content (21.3%) to seed of Centennial (21.0%). Terra-Vig 616 is slightly lower in height (84.1 cm) than Centennial (89.0%).

As stated above Terra-Vig 616 has purple flowers. Terra-Vig 616 has up to one (1) plant with white flowers in 2,000 plants. Terra-Vig 616 has a gray pubescence with up to one (1) plant with a tawny pubescence in 2,000 plants. Terra-Vig 616 has an imperfect black hilum with up to one (1) plant in 2,000 plants with a hilum color other than imperfect black.



EXHIBIT E

TERRAL-NORRIS COMPANY'S APPLICATION FOR TERRA-VIG 616

Statement of the Basis of Applicant's Ownership

Terral-Norris Seed Co., Inc. is the owner of Terra-Vig 616 through purchase of the variety.